

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in this application:

Listing of Claims:

1. (Currently amended) A finless training projectile adapted to be fired from a weapon tube, the projectile comprising:
 - a body including a cylindrical portion;
 - a nose having a smooth surface, secured to a forward section of the body;
 - a finless tail secured to a rearward section of the body;
 - wherein the cylindrical portion of the body includes an outer diameter that is slightly smaller than an inside diameter of the weapon tube;
 - wherein the body further comprises an obturator that provides friction fit between the weapon tube and the projectile, in order to prevent forward thrust gases from escaping from the weapon tube;
 - wherein the tail comprises a generally cylindrical tail piece and a slotted tail flange;
 - wherein the slotted tail flange comprises a plurality of radially angled slots for achieving spin during flight of the training projectile, to compensate for aerodynamic or mass asymmetries; and
 - wherein the nose provides increased mass to move a center of gravity of the projectile to a forward position, and allows a center of pressure to remain in a constant position during flight, so that a distance between the center of gravity and the center of pressure remains constant during flight, thereby providing improved flight stability over an extended range.

2. (Original) The training projectile of claim 1, wherein the body and the tail are dimensioned to be fired from any one of a smooth bore or a rifled cannon of 120 mm.

3. (Original) The training projectile of claim 1, wherein the body and the tail are dimensioned to be fired from any one of a smooth bore or a rifled cannon of 105 mm.

4. (Original) The training projectile of claim 1, wherein the slotted tail flange comprises a range of approximately 2 to 8 the radially angled slots that are spaced evenly around a circumference of the slotted tail flange.

5. (Original) The training projectile of claim 1, wherein the radially angled slots have a width of approximately 18.1 mm.

6. (Original) The training projectile of claim 1, wherein the radially angled slots have a depth of approximately 10.1 mm.

7. (Currently amended) The training projectile of claim 1, wherein the tail comprises:

a cylindrical section;

~~wherein the cylindrical section has a diameter similar to a diameter of the short cylindrical section of the body; and~~

wherein the cylindrical section of the tail is connected to the [[short]] cylindrical ~~section~~ portion of the body.

8. (Original) The training projectile of claim 1, wherein the radially angled slots define an angle of approximately 30 degrees with respect to an axis of the training projectile.

9. (Currently amended) The training projectile of claim 1, wherein the body comprises an inwardly tapering section;~~and~~
~~wherein the body comprises a short cylindrical section.~~

10. (Original) The training projectile of claim 1, wherein the nose has a generally ogival shape.

11. (Original) The training projectile of claim 1, wherein the nose has a generally cone shape.

12. (Original) The training projectile of claim 1, wherein the nose has a generally ogival/cone combination shape.

13. (New) The training projectile of claim 1, wherein the weapon tube is non-rifled; and

further comprises a stabilizer that is secured to the tails and that is formed of two integrally connected, coaxial, sections of different diameters, to ensure that the projectile spins when fired from the non-rifled weapon tube.

14. (New) The training projectile of claim 1, wherein the weapon tube includes a smooth inner surface; and

further comprises a stabilizer that is secured to the tails and that is formed of two integrally connected, coaxial, sections of different diameters, to ensure that the projectile spins when fired from the smooth inner surface of the weapon tube.